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USPT,PGPB,JPAB,EPAB,DWPI	11 and (antibacterial or antimicrobial)	269	L2
USPT,PGPB,JPAB,EPAB,DWPI	polyurethane adj2 (film or wrap)	4725	L1

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File: JPAB

Jun 27, 1995

PUB-NO: JP407166425A

DOCUMENT-IDENTIFIER: JP 07166425 A

TITLE: POLYURETHANE ELASTIC FIBER

PUBN-DATE: June 27, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

INABA, IKUNOBU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

ASAHI CHEM IND CO LTD

APPL-NO: JP05293284

APPL-DATE: November 24, 1993

INT-CL (IPC): D01F 6/94; A01N 59/00; C08L 75/04; D01F 1/10

ABSTRACT:

PURPOSE: To obtain a polyurethane elastic fiber having excellent antimicrobial function.

CONSTITUTION: This is a silver-containing polyurethane elastic fiber. An applicable state of silver to be incorporated is a silver ion, a silver salt, silver fine particle or their combination and further the silver ion, the silver fine particle or their combination is preferable because it exhibits excellent antimicrobial activity with a small quantity of silver. The silver content in the fiber is: in a silver ion, 10-5000ppm, preferably 100-1000ppm; in a silver salt or silver fine particle, 0.005-1.0wt.%, preferably 0.025-0.5wt.%. The method to incorporate silver is as follows: in the case of a silver ion, a spinning solution is compounded with a supporting body of the silver ion, preferably a zirconium phosphate-containing ion-exchanger capable of supporting the silver ion, the ingredients are homogeneously dispersed and subsequently the obtained liquid is subjected to spinning; in the case of a silver salt, a spinning solution compounded with a silver salt itself of e.g. trifluoroacetic acid is subjected to spinning; in the case of silver fine particle, a spinning solution is compounded with a silver salt and a reducing agent, the ingredients are homogeneously dispersed and this is subjected to a heat treatment at about 150°C to reduce the silver ion to silver followed by spinning.

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